

APPENDIX C

CASES WITH RECEIPT STARTING IN 2010

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CASES WITH RECEIPT STARTING IN 2010

C-1. COSTS

Table C-1. Scenario 1-Costs (YOE \$M)

Scenario 1 is Modular with mostly legal weight truck and 2010 receipt							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$0	\$24	\$0	\$453
2005	\$300	\$164	\$0	\$0	\$12	\$0	\$475
2006	\$277	\$149	\$0	\$0	\$10	\$20	\$456
2007	\$261	\$232	\$278	\$0	\$45	\$15	\$831
2008	\$253	\$208	\$274	\$10	\$45	\$73	\$864
2009	\$277	\$156	\$283	\$10	\$69	\$117	\$913
2010	\$277	\$0	\$243	\$0	\$217	\$212	\$949
2011	\$160	\$0	\$252	\$0	\$290	\$200	\$903
2012	\$177	\$0	\$0	\$0	\$347	\$206	\$731
2013	\$173	\$0	\$0	\$0	\$324	\$238	\$736
2014	\$168	\$0	\$0	\$0	\$353	\$246	\$767
2015	\$186	\$0	\$0	\$0	\$437	\$271	\$893
2016	\$199	\$0	\$0	\$45	\$502	\$284	\$1,030
2017	\$204	\$0	\$0	\$46	\$469	\$304	\$1,024
2018	\$189	\$266	\$49	\$414	\$475	\$304	\$1,696
2019	\$198	\$276	\$51	\$430	\$490	\$393	\$1,838
2020	\$209	\$288	\$53	\$448	\$611	\$378	\$1,986
Total	\$3,819	\$1,797	\$1,543	\$1,403	\$4,721	\$3,261	\$16,545

Table C-2. Scenario 2-Costs (YOE \$M)

Scenario 2 is Modular surface with mostly legal weight truck and 2010 receipt							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$0	\$24	\$0	\$453
2005	\$300	\$238	\$0	\$0	\$12	\$0	\$549
2006	\$277	\$282	\$0	\$0	\$10	\$20	\$589
2007	\$261	\$202	\$278	\$0	\$45	\$15	\$801
2008	\$253	\$290	\$274	\$10	\$45	\$73	\$946
2009	\$277	\$254	\$283	\$10	\$64	\$117	\$1,006
2010	\$277	\$0	\$243	\$0	\$296	\$212	\$1,028
2011	\$160	\$0	\$252	\$0	\$373	\$203	\$989
2012	\$177	\$0	\$0	\$0	\$556	\$209	\$943
2013	\$173	\$0	\$0	\$0	\$437	\$216	\$826
2014	\$168	\$0	\$0	\$41	\$402	\$219	\$830
2015	\$186	\$0	\$0	\$43	\$554	\$243	\$1,026
2016	\$199	\$0	\$0	\$383	\$585	\$244	\$1,411
2017	\$204	\$0	\$0	\$398	\$661	\$396	\$1,659
2018	\$189	\$0	\$0	\$414	\$553	\$479	\$1,634
2019	\$198	\$0	\$152	\$6	\$794	\$481	\$1,630
2020	\$209	\$0	\$278	\$6	\$1,019	\$460	\$1,972
Total	\$3,819	\$1,324	\$1,821	\$1,310	\$6,430	\$3,587	\$18,292

Table C-3. Scenario 3-Costs (YOE \$M)

Scenario 3 is Modular with high-rate mostly legal weight truck							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$0	\$24	\$0	\$453
2005	\$300	\$164	\$0	\$0	\$12	\$0	\$475
2006	\$277	\$149	\$0	\$0	\$10	\$20	\$456
2007	\$261	\$232	\$278	\$0	\$45	\$15	\$831
2008	\$253	\$208	\$274	\$10	\$45	\$70	\$860
2009	\$277	\$156	\$283	\$10	\$64	\$109	\$900
2010	\$277	\$197	\$243	\$0	\$206	\$222	\$1,145
2011	\$160	\$204	\$252	\$0	\$289	\$256	\$1,161
2012	\$177	\$212	\$116	\$0	\$433	\$299	\$1,237
2013	\$173	\$220	\$0	\$0	\$471	\$328	\$1,192
2014	\$168	\$0	\$0	\$0	\$604	\$350	\$1,121
2015	\$186	\$0	\$0	\$0	\$668	\$383	\$1,236
2016	\$199	\$0	\$0	\$0	\$857	\$387	\$1,443
2017	\$204	\$0	\$0	\$0	\$736	\$378	\$1,319
2018	\$189	\$0	\$0	\$0	\$732	\$383	\$1,304
2019	\$198	\$0	\$0	\$0	\$919	\$389	\$1,506
2020	\$209	\$0	\$0	\$0	\$862	\$323	\$1,394
Total	\$3,819	\$1,800	\$1,508	\$20	\$6,976	\$3,912	\$18,034

Table C-4. Scenario 4-Costs (YOE \$M)

Scenario 4 is Modular surface with mostly rail and 2010 receipt							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$11	\$24	\$0	\$464
2005	\$300	\$238	\$0	\$75	\$12	\$0	\$624
2006	\$277	\$282	\$0	\$310	\$10	\$20	\$898
2007	\$261	\$202	\$278	\$160	\$45	\$15	\$961
2008	\$253	\$290	\$274	\$165	\$45	\$74	\$1,102
2009	\$277	\$254	\$283	\$104	\$64	\$131	\$1,113
2010	\$277	\$0	\$0	\$4	\$260	\$228	\$769
2011	\$160	\$0	\$0	\$4	\$307	\$227	\$698
2012	\$177	\$0	\$262	\$4	\$528	\$272	\$1,243
2013	\$173	\$0	\$272	\$4	\$470	\$316	\$1,235
2014	\$168	\$0	\$0	\$5	\$536	\$340	\$1,049
2015	\$186	\$0	\$0	\$5	\$685	\$358	\$1,233
2016	\$199	\$0	\$135	\$5	\$732	\$366	\$1,437
2017	\$204	\$0	\$0	\$5	\$858	\$452	\$1,519
2018	\$189	\$0	\$0	\$5	\$777	\$462	\$1,434
2019	\$198	\$0	\$0	\$6	\$944	\$460	\$1,608
2020	\$209	\$0	\$0	\$6	\$1,033	\$375	\$1,623
Total	\$3,819	\$1,324	\$1,564	\$877	\$7,330	\$4,096	\$19,011

Table C-5. Scenario 5-Costs (YOE \$M)

Scenario 5 is the Reference Scenario							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$11	\$24	\$0	\$464
2005	\$300	\$238	\$266	\$75	\$23	\$0	\$902
2006	\$277	\$282	\$444	\$310	\$29	\$20	\$1,361
2007	\$261	\$202	\$378	\$160	\$42	\$15	\$1,059
2008	\$253	\$290	\$276	\$165	\$52	\$74	\$1,111
2009	\$277	\$254	\$0	\$104	\$59	\$131	\$824
2010	\$277	\$0	\$0	\$4	\$329	\$241	\$851
2011	\$160	\$0	\$0	\$4	\$359	\$276	\$799
2012	\$177	\$0	\$0	\$4	\$596	\$345	\$1,122
2013	\$173	\$0	\$0	\$4	\$572	\$387	\$1,137
2014	\$168	\$0	\$0	\$5	\$629	\$405	\$1,206
2015	\$186	\$0	\$0	\$5	\$822	\$426	\$1,438
2016	\$199	\$0	\$0	\$5	\$882	\$448	\$1,534
2017	\$204	\$0	\$0	\$5	\$863	\$415	\$1,488
2018	\$189	\$0	\$0	\$5	\$784	\$437	\$1,416
2019	\$198	\$0	\$0	\$6	\$943	\$440	\$1,587
2020	\$209	\$0	\$0	\$6	\$1,013	\$373	\$1,601
Total	\$3,819	\$1,324	\$1,425	\$877	\$8,021	\$4,434	\$19,900

Table C-6. Scenario 6-Costs (YOE \$M)

Scenario 6 is the Reference system with small transport construction cost alternative							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$1	\$24	\$0	\$454
2005	\$300	\$238	\$266	\$5	\$23	\$0	\$832
2006	\$277	\$282	\$444	\$5	\$29	\$20	\$1,056
2007	\$261	\$202	\$378	\$62	\$42	\$15	\$961
2008	\$253	\$290	\$276	\$75	\$52	\$80	\$1,025
2009	\$277	\$254	\$0	\$76	\$59	\$137	\$803
2010	\$277	\$0	\$0	\$14	\$329	\$244	\$864
2011	\$160	\$0	\$0	\$16	\$359	\$287	\$822
2012	\$177	\$0	\$0	\$18	\$596	\$364	\$1,155
2013	\$173	\$0	\$0	\$22	\$572	\$409	\$1,177
2014	\$168	\$0	\$0	\$26	\$629	\$428	\$1,250
2015	\$186	\$0	\$0	\$28	\$822	\$438	\$1,474
2016	\$199	\$0	\$0	\$53	\$882	\$465	\$1,600
2017	\$204	\$0	\$0	\$55	\$863	\$436	\$1,559
2018	\$189	\$0	\$0	\$35	\$784	\$456	\$1,465
2019	\$198	\$0	\$0	\$37	\$943	\$458	\$1,635
2020	\$209	\$0	\$0	\$38	\$1,013	\$397	\$1,657
Total	\$3,819	\$1,324	\$1,425	\$567	\$8,020	\$4,633	\$19,788

Table C-7. Scenario 7-Costs (YOE \$M)

Scenario 7 is Modular with small transport construction cost and enhanced low rate 2010 receipt							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$1	\$24	\$0	\$454
2005	\$300	\$164	\$0	\$5	\$12	\$0	\$480
2006	\$277	\$149	\$0	\$5	\$10	\$20	\$461
2007	\$261	\$232	\$278	\$62	\$45	\$15	\$893
2008	\$253	\$208	\$274	\$75	\$45	\$80	\$935
2009	\$277	\$156	\$283	\$76	\$64	\$137	\$994
2010	\$277	\$0	\$0	\$14	\$177	\$234	\$702
2011	\$160	\$0	\$0	\$16	\$225	\$213	\$613
2012	\$177	\$212	\$0	\$18	\$329	\$211	\$947
2013	\$173	\$220	\$0	\$22	\$301	\$218	\$933
2014	\$168	\$228	\$0	\$26	\$299	\$238	\$959
2015	\$186	\$237	\$0	\$28	\$327	\$256	\$1,034
2016	\$199	\$0	\$0	\$53	\$492	\$278	\$1,022
2017	\$204	\$0	\$257	\$55	\$601	\$293	\$1,411
2018	\$189	\$0	\$268	\$35	\$471	\$311	\$1,274
2019	\$198	\$0	\$278	\$37	\$700	\$380	\$1,593
2020	\$209	\$0	\$0	\$38	\$853	\$379	\$1,480
Total	\$3,819	\$1,863	\$1,699	\$567	\$4,975	\$3,262	\$16,186

Table C-8. Scenario 8-Costs (YOE \$M)

Scenario 8 is Augmented modular with small transport construction cost, 2010 receipt, and 2029 completion of deferred modules							
Year	RIMS & Performance Confirmation	Subsurface Construction	Surface Construction	Nevada Transportation	MGR Operations	Waste Acceptance Operations	Total
2004	\$310	\$58	\$61	\$1	\$24	\$0	\$454
2005	\$300	\$164	\$0	\$5	\$12	\$0	\$480
2006	\$277	\$149	\$0	\$5	\$10	\$20	\$461
2007	\$261	\$232	\$305	\$62	\$55	\$15	\$930
2008	\$253	\$208	\$302	\$75	\$56	\$80	\$973
2009	\$277	\$156	\$312	\$76	\$86	\$164	\$1,071
2010	\$277	\$0	\$0	\$14	\$221	\$296	\$808
2011	\$160	\$0	\$0	\$16	\$237	\$354	\$767
2012	\$177	\$0	\$0	\$18	\$376	\$465	\$1,036
2013	\$173	\$0	\$0	\$22	\$419	\$557	\$1,172
2014	\$168	\$0	\$0	\$26	\$427	\$562	\$1,182
2015	\$186	\$0	\$0	\$28	\$448	\$600	\$1,262
2016	\$199	\$0	\$0	\$53	\$514	\$634	\$1,400
2017	\$204	\$0	\$0	\$55	\$486	\$616	\$1,361
2018	\$189	\$0	\$0	\$35	\$484	\$585	\$1,294
2019	\$198	\$0	\$0	\$37	\$526	\$575	\$1,336
2020	\$209	\$0	\$0	\$38	\$595	\$523	\$1,366
Total	\$3,819	\$967	\$979	\$567	\$4,975	\$6,046	\$17,353

C-2. SUMMARY

Table C-9. Summary of Annual Costs (YOE \$M)

Year	Scenario							
	1	2	3	4	5	6	7	8
2004	\$453	\$453	\$453	\$464	\$464	\$454	\$454	\$454
2005	\$475	\$549	\$475	\$624	\$902	\$832	\$480	\$480
2006	\$456	\$589	\$456	\$898	\$1,361	\$1,056	\$461	\$461
2007	\$831	\$801	\$831	\$961	\$1,059	\$961	\$893	\$930
2008	\$864	\$946	\$860	\$1,102	\$1,111	\$1,025	\$935	\$973
2009	\$913	\$1,006	\$900	\$1,113	\$824	\$803	\$994	\$1,071
2010	\$949	\$1,028	\$1,145	\$769	\$851	\$864	\$702	\$808
2011	\$903	\$989	\$1,161	\$698	\$799	\$822	\$613	\$767
2012	\$731	\$943	\$1,237	\$1,243	\$1,122	\$1,155	\$947	\$1,036
2013	\$736	\$826	\$1,192	\$1,235	\$1,137	\$1,177	\$933	\$1,172
2014	\$767	\$830	\$1,121	\$1,049	\$1,206	\$1,250	\$959	\$1,182
2015	\$893	\$1,026	\$1,236	\$1,233	\$1,438	\$1,474	\$1,034	\$1,262
2016	\$1,030	\$1,411	\$1,443	\$1,437	\$1,534	\$1,600	\$1,022	\$1,400
2017	\$1,024	\$1,659	\$1,319	\$1,519	\$1,488	\$1,559	\$1,411	\$1,361
2018	\$1,696	\$1,634	\$1,304	\$1,434	\$1,416	\$1,465	\$1,274	\$1,294
2019	\$1,838	\$1,630	\$1,506	\$1,608	\$1,587	\$1,635	\$1,593	\$1,336
2020	\$1,986	\$1,972	\$1,394	\$1,623	\$1,601	\$1,657	\$1,480	\$1,366
Total	\$16,545	\$18,292	\$18,034	\$19,011	\$19,900	\$19,788	\$16,186	\$17,353

Table C-10. Summary of Cumulative Costs (YOE \$M)

Year	Scenario							
	1	2	3	4	5	6	7	8
2004	453	453	453	464	464	454	454	454
2005	928	1,002	928	1,088	1,365	1,285	934	934
2006	1,384	1,591	1,384	1,986	2,726	2,342	1,395	1,395
2007	2,215	2,392	2,215	2,947	3,785	3,303	2,288	2,325
2008	3,079	3,338	3,075	4,049	4,896	4,329	3,223	3,298
2009	3,992	4,343	3,975	5,162	5,720	5,131	4,217	4,369
2010	4,941	5,371	5,120	5,931	6,571	5,995	4,919	5,177
2011	5,843	6,360	6,281	6,629	7,370	6,817	5,532	5,944
2012	6,574	7,303	7,518	7,873	8,492	7,972	6,479	6,980
2013	7,310	8,129	8,710	9,108	9,629	9,149	7,412	8,152
2014	8,077	8,960	9,831	10,157	10,835	10,399	8,371	9,334
2015	8,970	9,986	11,067	11,390	12,273	11,872	9,405	10,596
2016	10,000	11,397	12,511	12,827	13,807	13,472	10,427	11,996
2017	11,024	13,055	13,829	14,346	15,295	15,031	11,839	13,357
2018	12,720	14,689	15,134	15,780	16,711	16,496	13,113	14,651
2019	14,559	16,319	16,640	17,388	18,298	18,131	14,706	15,987
2020	16,545	18,292	18,034	19,011	19,900	19,788	16,186	17,353
Total	16,545	18,292	18,034	19,011	19,900	19,788	16,186	17,353

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